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South & Central America Plastics for SLS 3D Printing Market Forecast to 2030 - Regional Analysis - by Type (Polyamide, Thermoplastic Polyurethane (TPU), Polyether Ether Ketone (PEEK), and Others) and End-Use Industry (Healthcare, Aerospace & Defense, Automotive, Electronics, Others)

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Abstracts

The South & Central America plastics for SLS 3D printing market was valued at US$ 3.85 million in 2022 and is expected to reach US$ 13.63 million by 2030; it is estimated to grow at a CAGR of 17.1% from 2022 to 2030.

Increasing Demand for SLS 3D Printing from the Healthcare Industry Fuels South & Central America Plastics for SLS 3D Printing Market

In the healthcare industry, there is a rise in the production of patient-specific implants and prosthetics. For instance, in orthopedics, SLS has been used to manufacture customized hip and knee implants tailored to a patient's unique anatomy. Such implants improve comfort and reduce the risk of complications, leading to enhanced patient outcomes. In the dental field, SLS 3D printing has become indispensable for creating highly accurate models, crowns, bridges, and dentures. For instance, dental laboratories are adopting SLS technology to meet the growing demand for precision dental restorations, offering patients better-fitting and more durable solutions. Additionally, SLS is being employed for surgical planning and training. Hospitals and medical institutions use SLS-printed anatomical models to simulate and practice complex surgeries. Surgeons can refine their techniques, minimizing risks during actual procedures. This has become particularly relevant for intricate surgeries, such as neurosurgery or craniofacial reconstructions. Furthermore, SLS technology is widely

used in the field of pharmaceuticals, which includes the increasing use of SLS to create personalized drug delivery systems, allowing for patient-specific medications with precise dosages. This has the potential to revolutionize medication effectiveness and patient care. In the prosthetics sector, SLS-printed components are contributing to enhanced functionality and comfort for amputees. Prosthetic limbs are becoming lighter and more customizable, offering a better quality of life for individuals in need of these devices. Hence, the increasing utilization from the healthcare sector is likely to offer several opportunities for the plastic for SLS 3D printing market during the forecast period.

South & Central America Plastics for SLS 3D Printing Market Overview

According to the report by the Brazilian Association of Automotive Vehicle Manufacturers, the production of automobiles in Brazil grew by 11.4%, and the sales were boosted by 10.9% from February to March 2022. Major market players in the automotive sector have strategized the development and expansion of their operational capacities in South & Central America to benefit from the lucrative automotive market. In 2022, Audi AG invested US$ 19.2 million to restart production activities at the company's plant in Parana, Brazil, registering a capacity of 4,000 vehicles per year. The demand for high-precision and complex components from several industries, such as aerospace and automotive, is expected to drive the plastics for the SLS 3D printing market.

South & Central America Plastics for SLS 3D Printing Market Revenue and Forecast to 2030 (US$ Million)

South & Central America Plastics for SLS 3D Printing Market Segmentation

The South & Central America plastics for SLS 3D printing market is segmented based on type, end-use industry, and country.

Based on type, the South & Central America plastics for SLS 3D printing market is categorized into polyamide, thermoplastic polyurethane (TPU), polyether ether ketone (PEEK), and others. The polyamide segment held the largest South & Central America plastics for SLS 3D printing market share in 2022.

In terms of end-use industry, the South & Central America plastics for SLS 3D printing market is segmented into healthcare, aerospace & defense, automotive, electronics, and others. The others segment held the largest South & Central America plastics for

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SLS 3D printing market share in 2022.

Based on country, the South & Central America plastics for SLS 3D printing market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America plastics for SLS 3D printing market in 2022.

3D Systems Corp, Arkema SA, BASF SE, Ensinger GmbH, EOS GmbH, Evonik Industries AG, and Stratasys Ltd are some of the leading companies operating in the South & Central America plastics for SLS 3D printing market.

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